

Curriculum Vitae

JEFFREY S. RUSSELL, Ph.D., P.E., Dist.M.ASCE, NAC, F.NSPE

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FORMAL EDUCATION

- Ph.D. Civil Engineering (Construction Engineering and Management), 1988, Purdue University, West Lafayette, Indiana.
- M.S. Civil Engineering (Construction Engineering and Management), 1986, Purdue University, West Lafayette, Indiana.
- B.S. Civil and Environmental Engineering (with honors), 1985, University of Cincinnati, Cincinnati, Ohio.

POSITIONS HELD

- 2011 to present Vice Provost for Lifelong Learning and Dean of the Division of Continuing Studies, University of Wisconsin-Madison, Madison, Wisconsin
- 2008 to 2012 Pieper Foundation Chair in Servant Leadership
- 2004 to 2012 Chair, Department of Civil and Environmental Engineering, University of Wisconsin-Madison, Madison, Wisconsin.
- 1999 to present Professor, Department of Civil and Environmental Engineering, University of Wisconsin-Madison, Madison, Wisconsin.
- 1995-99 Associate Professor, Department of Civil and Environmental Engineering, University of Wisconsin-Madison, Madison, Wisconsin.
- 1989-95 Assistant Professor, Department of Civil and Environmental Engineering, University of Wisconsin-Madison, Madison, Wisconsin.
- 1988-89 Post-Doctoral Research Associate, Department of Civil Engineering, Purdue University, West Lafayette, Indiana.
- 1987-88 Graduate Research Assistant, Department of Civil Engineering, Purdue University, West Lafayette, Indiana.
- 1985-87 Graduate Teaching Assistant, Department of Civil Engineering, Purdue University, West Lafayette, Indiana.

HONORS AND AWARDS

Honors

Graduated Cum Laude with B.S.C.E. (1997)

Chi Epsilon, Civil Engineering Honor Society

Tau Beta Pi, Engineering Honor Society

Sigma Xi, Scientific Research Society

Eminent Visiting Scholar, Arizona State University, Tempe, AZ, summer of 1997.

Charles Pankow Award for Innovation (2004)

“HYDECK – A Durable and Efficient Hybrid Bridge Deck System.” FRP system developed by Bank and colleagues selected as one of four finalists by the Civil Engineering Research Foundation, American Society of Civil Engineers.

Grand Award Winner (2005)

“FRP Cage Reinforced Deck.” Awarded by the American Council of Engineering Companies (ACEC) Wisconsin Section to Alfred Benesch & Co for implementing an FRP grid systems developed by Bank and colleagues at the University of Wisconsin.

Popular Science “Best of What’s New 2005” Selection (2005)

Fiber Reinforced Polymer Bridge system developed by Bank and colleagues selected as one of the five top engineering innovations of 2005 by Popular Science Magazine.

<http://www.popsci.com/popsci/bown2005/engineering/index.html>

Charles Pankow Award for Innovation (2006)

“GRIDFORM – Prefabricated Modular FRP Stay-in-Place Reinforcement for Accelerated Construction of Bridge Decks.” FRP system developed by Bank and colleagues at the Universities of Wisconsin-Madison and Missouri-Rolla selected as one of two finalists by the Civil Engineering Research Foundation, American Society of Civil Engineers.

Awards

- Outstanding Professor of Civil and Environmental Engineering, American Society of Civil Engineering (ASCE) Student Chapter, 1991, 1994, 1995, 1996, 1997, 1998, 1999, 2000, and 2001
- 1990 National Science Foundation (NSF) Presidential Young Investigator
- 1991 American Society of Civil Engineering (ASCE) National Collingwood Prize
- 1993 ASCE National Edmund Friedman Young Engineering Award
- 1993 Best Paper Award for paper “Motion Planning for Automated Construction,” Construction Industry Institute
- 1995 Best Technical Paper Award for “An Operations Planning System for Autonomous Landfill Compaction,” Building Mechanization and Mineral Mining Research Institute
- 1995 ASCE Wisconsin Section Engineers Merit Award
- 1996 ASCE Wisconsin Young Civil Engineer of the Year Award
- 1996 ASCE Walter L. Huber Civil Engineering Research Prize for research on the Modeling of Construction Contractor Evaluation and Failure
- 1996 ASCE Thomas Fitch Rowland Prize for “Case Study of Burlington Cable-Stayed Bridge”

- 1996 One of Top 25 Newsmakers in Engineering News Record (ENR) for work in automating the asphalt paving operation
- 1996 Best Paper Award for “A Motion Planning Software System for Automated Landfill Compaction on Rough Surfaces,” Japan Robot Association
- 1997 Wisconsin Society of Professional Engineers (WSPE), Southwest Chapter Outstanding Professional Engineering in Education
- 2000 Construction Industry Institute Outstanding Research Award for research in the areas of constructability and maintainability
- 2002 ASCE Outstanding Paper, *Journal of Management Engineering*, for “Guidelines for Warranty Contracting for Highway Construction”
- 2003 ASCE President’s Medal for leadership in implementing ASCE Policy Statement 465-Academic Prerequisites for Licensure and Professional Practice
- 2004 NSF Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, awarded by President of the United States in the Oval Office
- 2005 One of Top 25 Newsmakers in ENR for work reforming engineering education
- 2006 Outstanding Paper Award for “Mentoring in Engineering,” *Leadership and Management in Engineering*
- 2007 ASCE Best Applied Research Paper, *Journal of Composites in Construction*, for “Double Layer Prefabricated FRP Grids for Rapid Bridge Deck Construction: Case Study”
- 2007 National Society of Professional Engineers (NSPE) Wisconsin Section Engineering Educator of the Year
- 2007 ASCE Excellence in Civil Engineering Education Leadership in Education Award
- 2009 ASCE Distinguished Member (DIST.M.ASCE) **The highest honor given by ASCE*
- 2009 ASCE Wisconsin Section Distinguished Service Award
- 2009 ASCE Best Paper Award from the *Journal of Professional Issues and Education* for the paper titled "Experiential Learning in Engineering Practice"
- 2010 ASEE George Wadlin Service Award
- 2010 ASEE Glen L. Martin Best Paper Award
- 2010 ASCE Peurifoy Research Award
- 2011 University of Wisconsin-Madison Construction Club Lifetime Achievement Award
- 2011 National Academy of Construction (NAC)
- 2011 Fellow, National Society of Professional Engineers (F.NSPE)
- 2014 ASCE Outstanding Projects and Leaders (OPAL) Lifetime Achievement Award in Education
- 2014 Alliance High School Distinguished Alumnus Award
- 2015 Friend of Academic Staff Award, University of Wisconsin–Madison
- 2020 Partners in Giving Doug Palm Community Service Award (joint winner with Kristen Roman)

TEACHING

Formal Courses Taught

CEE 395	Materials of Constructed Facilities (co-taught with Professor Steven Cramer, CEE; student evaluations did not include Professor Russell)
CEE 498	Construction Project Management (videotaped 1997)
CEE 578	Senior Level Capstone Design
CEE 596	Constructability Analysis (videotaped 1999)
CEE 597	Construction Operation Analysis
CEE 598	Construction Contractor Analysis
CEE 649 ^a	Analysis of Construction Contractors
CEE 649 ^b	Construction Technology and Automation
CEE 698 ^a	Analysis of Construction Contractors
CEE 698 ^b	Constructability Design & Analysis
CEE 698 ^c	Construction Equipment and Heavy Construction Methods (Co-taught with Professor Dick Struab, Ag Engrg)
CEE 698 ^d	Construction Operation Analysis
CEE 698 ^e	Constructed Facilities Graduate Seminar (co-taught with Professor Steven Cramer)
CEE 698 ^f	Study of College of Engineering – 3 rd Semester 1-credit course using Engineering Centers Building as a learning laboratory
CEE 949	Construction Engineering and Management Research Seminar
EPD 612	Technical Project Management
EPD 690 ^a	Core Competencies of Leadership
EPD 690 ^b	Core Competencies of Sustainability
INTEREGR 400	Dean’s Leadership Class

Courses denoted as CEE 649 a and b were different special topic courses within Structural Engineering. In 1991, we received approval for special topic courses in Construction Engineering and Management (i.e., CEE 698). The courses designed CEE 698 a, b, c, d, e, and f, again, were different special topic courses offered prior to developing formal course proposals. Courses EPD 690a and b were different special topics courses offered by Engineering Professional Development.

Student Evaluations

College of Engineering course and instructor evaluation (COE) forms were used by Dr. Russell as summarized below. Column A represents the mean overall student response for 21 questions rating the instructor on a scale of 1 to 4, where 4 is the highest. The maximum value in Column B gives the rating of the instructor relative to others the students have encountered (Questions #22). Here, the scale is 1 to 5, with 5 being the top 20th percentile.

Course	Sem	Enrollment	Hours/Week	Prof. Russell	
				Mean A	Quest #22B
CEE 649a	II/89	4	3 hrs. lecture	3.46	4.5
CEE 649b	I/90	3	3 hrs. lecture	3.5	4
CEE 949	I/90	4	1 hr. lecture	3.4	4.8
CEE 498	II/90	29	3 hrs. lecture	3.71	4.93
CEE 698a	I/91	14	3 hrs. lecture	3.71	4.85
CEE 498	II/91	27	3 hrs. Lecture	3.49	4.76

Course	Sem	Enrollment	Hours/Week	Prof. Russell	
				Mean A	Quest #22B
CEE 698b	II/91	19	1 hr. lecture	3.46	4.41
CEE 598	I/92	25	3 hrs. lecture	3.59	4.68
CEE 698c	I/92	7	3 hrs. lecture	3.33	4.5
CEE 498	II/92	21	3 hrs. lecture	3.47	4.7
CEE 698b	II/92	4	3 hrs. lecture	3.44	5
CEE 598	I/93	28	3 hrs. lecture	3.62	4.67
CEE 698c	I/93	4	1 hr. lecture	3.48	5
CEE 698d	I/93	8	2 hrs. lecture	3.37	4.75
CEE 498	II/93	50	3 hrs. lecture	3.51	4.87
CEE 596	II/93	14	2 hrs. lecture	3.67	4.93
CEE 395	I/94	111	0.17 hr. lecture	n/a	n/a
CEE 597	I/94	15	2 hrs. lecture	3.33	4.27
CEE 598	I/94	32	3 hrs. lecture	3.4	4.62
CEE 395	II/94	101	0.17 hr. lecture	n/a	n/a
CEE 597	II/94	18	2 hrs. lecture	3.33	4.27
CEE 598	II/94	32	3 hrs. lecture	3.4	4.62
CEE 698c	II/94	10	3 hrs. lecture	2.84	2.7
CEE 498	I/95	33	3 hrs. lecture	3.41	4.67
CEE 596	I/95	20	2 hrs. lecture	3.57	4.74
CEE 598	II/95	29	3 hrs. lecture	3.33	4.43
CEE 498	I/96	35	3 hrs. lecture	3.47	4.59
CEE 596	I/96	17	3 hrs. lecture	3.47	4.67
CEE 498	II/96	36	3 hrs. lecture	3.35	4.63
CEE 596	I/98	16	3 hrs. lecture	3.47	4.67
CEE 498	I/98	40	3 hrs. lecture	3.04	3.96
CEE 698e	I/98	26	1 hr. seminar	n/a	n/a
CEE 596	I/98	16	3 hrs. lecture	3.36	4.25
CEE 498	I/99	57	3 hrs. lecture	3.4	4.58
CEE 596	I/99	16	3 hrs. lecture	3.29	4.5
CEE 698e	I/99	30	1 hr. seminar	n/a	n/a
CEE 698f	II/99	39	3 hrs. lecture	n/a	n/a
CEE 498	I/00	37	3 hrs. lecture	3.45	4.77
CEE 698f	I/00	26	2.5 hrs. lecture	3.64	4.83
CEE 698f	I/00	30	2.5 hrs. lecture	3.47	4.52
CEE 498	II/00	25	3 hrs. lecture	3.21	4.5
CEE 596	II/00	9	3 hrs. lecture	3.57	4.6

Course	Sem	Enrollment	Hours/Week	Prof. Russell	
				Mean A	Quest #22B
CEE 698	II/00	25	2.5 hrs. lecture	3.6	4.77
CEE 498	I/01	22	3 hrs. lecture	3.33	4.36
CEE 578	I/01	31	2.1 hrs. lecture	3.41	4.61
CEE 498	II/00	25	3 hrs. lecture	3.21	4.5
CEE 596	II/00	9	3 hrs. lecture	3.57	4.6
CEE 698	II/00	25	2.5 hrs. lecture	3.6	4.77
CEE 498	I/02	22	3 hrs. lecture	3.33	4.36
CEE 596	II/02	9	3 hrs. lecture	3.57	4.7
CEE 698	II/03	37	1 hr. lecture	3.6	4.77
CEE 498	I/03	15	3 hrs. lecture	3.33	4.55
CEE 578	I/03	31	2.1 hrs. lecture	3.45	4.67
CEE 498	I/04	22	3 hrs. lecture	3.44	4.83
CEE 578	I/04	41	2.1 hrs. lecture	3.58	4.69
CEE 596	II/04	27	3 hrs. lecture	3.15	4.05
CEE 698	II/04	31	2.5 hrs. lecture	3.52	4.2
CEE 578	I/05	41	2.1 hrs. lecture	3.51	4.6
CEE 578	I/06	56	2.1 hrs. lecture	4.07	4.52
CEE 578	I/07	47	2.1 hrs. lecture	4.02	4.49
EPD 612	I/07	19	3 hrs. lecture	4.47	4.4
CEE 578	I/08	44	2.1 hrs. lecture	3.89	4.57
EPD 612	I/08	28	3 hrs. lecture	4.49	4.6
CEE 578	I/09	48	2.1 hrs. lecture	3.91	4.24
EPD 612	I/09	29	3 hrs. lecture	4.46	4.63
CEE 498	I/10	53	.83 hr. lecture	n/a	n/a
EPD 690	I/10	11	1 hr. lecture	n/a	n/a
EPD 690	I/10	7	1 hr. lecture	n/a	n/a
CEE 578	II/10	61	3 hrs. lecture		
EPD 612	II/10	30	3 hrs. lecture		
INTEREGR 400	II/10	33	1.5 hrs. lecture		

Research Students

Students Graduated			
Student	Degree	Year	Topic
Meyer, G. [Design Supervisor for District 1, Wis. DOT, Madison, WI]	PhD	Spr 91	Conceptual Model for Integrating business Activity and Data Systems in the AEC Industry
Jeljeli, M. [Project Manager, National Petroleum Construction Col., United Arab Emirates]	MS	Fall 91	Potential Applications of Geographic Information Systems to Construction Industry
Kunigahalli, R. (50% Russell, 50% Veeramani) [System Analyst, Bank One, New York, NY]	MS (Thesis)	Fall 91	Prototype Construction Robotic Equipment Management System
Radtke, M. [Project Engineer, Oscar J. Boldt, Milwaukee, WI]	MS (Thesis)	Spr 92	Guidelines for a Project-Level Constructability Program
Gugel, J. [Design Engineer, UOP, Chicago, IL]	MS (Thesis)	Fall 92	Models for Constructability Approach Selection and Input-Source Evaluation
Severson, G. [Project Manager, Turner, Construction Co., Chicago, IL]	MS (Thesis)	Fall 92	Predicting Construction Contract Surety Bond Claims Using Constructor Financial Data
Astour, R. [Construction Engineer, Arabian Construction Co., United Arab Emirates]	MS (Thesis)	Fall 92	Pilot Investigation of Schedules Supporting a Contractors Financial Statement
Nebel, R. [Vice President, Nebel Construction Co., Sturgeon Bay, WI]	MS (Thesis)	Spr 93	Construction Methods for Piling Installation
Abou-Zeid, A. [Asst. Professor, Structural Engineering Dept., Cairo University, Egypt]	PhD	Fall 93	Data Flow Identification to Support Project Automation/Integration and Productivity
O'Brien, T. [Project Manager, William Ryan Homes, Milwaukee, WI]	MS (Thesis)	Sum 94	Total Quality Management in Construction: A Study of the State of Wisconsin Facility Delivery Process
Jeljeli, M. [Project Manager, National Petroleum Construction Col., United Arab Emirates]	PhD	Sum 94	A Risk-Based Methodology for Estimating Contractors--Liability in Superfund Cleanup Construction
Kunigahalli, R. (50% Russell, 50% Veeramani) [System Analyst, Bank One, New York, NY]	PhD	Spr 94	Computer Integrated Concrete Placement Planning and Control System
Taha, M. (50% Russell, 50% Park) [Assist. Prof., Structural Engineering Dept., Cairo University, Egypt]	PhD	Spr 94	Application of Distributed Artificial Intelligence to Prequalification of Construction Contractors
Vadakpat, G. [Unknown]	MS (Thesis)	Spr 94	Analytical Study to Predict Friction on Highway Pavements
Lin, C.	MS	Spr 94	Software to Implement Constructability Analysis

Students Graduated			
Student	Degree	Year	Topic
[Construction Engineer, Bechtel, Taipei, Taiwan]	(Non-Thesis)		Selection Tool
Swiggum, K. [System Engineer, EPIC, Madison, WI]	MS (Thesis)	Spr 94	Work Process and Tools to Implement Constructability on Highway Projects
Sadek, A. [Architect, Wisconsin Dept. of Corrections, Madison, WI]	MS (Thesis)	Spr 94	Maintainability and Operability of Industrial Construction Projects
Zhai, H. (50% Russell ,50% Sanders) [Analyst, Dunn & Bradstreet, New York, NY]	PhD	Spr 94	Stochastic Modeling, Prediction, and Pricing of Contractor Default Risk
Arneson, J. [Vice President, Building Systems General Corporation, Madison, WI]	MS (Thesis)	Fall 94	Predictive Tools for Project Managers
Beyer, D. [Project Engineer, Wisconsin Dept. of Transportation, Madison, WI]	MS (Non-Thesis)	Fall 94	Characteristics of Effective Safety Programs
Tserng, H. [Assoc. Prof., National Taiwan University, Taipei, Taiwan]	MS (Thesis)	Fall 94	Construction Automation of Landfill Construction Sites
Unger, B. [Project Engineer, C.G. Schmit, Inc., Milwaukee, WI]	MS (Thesis)	Spr 95	Attributes of an Effective Cost Control Program
Lawrence S. [Project Manager, J.H. Findorff Construction Co., Madison, WI]	MS (Thesis)	Spr 95	Development of a Predictive Tool for Continuous Assessment of Project Performance
Kulprett [Project Engineer, Oscar J. Boldt Group, Appleton, WI]	MS (Thesis)	Spr 95	Quantitative Documentation of Construction Industry Best Practices
Ostrand, A. [Project Engineer, Kennedy & Rossi, Inc., Arlington, MA]	MS (Non-Thesis)	Spr 96	A Compilation of Legal Decisions on Construction Contract Termination
Morris, M. [Field Engineer, Oscar J. Boldt Construction Co., Appleton, WI]	MS (Non-Thesis)	Spr 96	Construction of the Whistling Straits Golf Course
Creamer, P. [Project Engineer, RMT, Inc., Madison, WI]	MS (Thesis)	Sum 96	Application of TQM to Design and Construction of Hazardous Waste Liners
Prestine, M. [Project Engineer, R.C. Johnson Construction, Inc., Loretto, MN]	MS (Thesis)	Sum 96	Developing a Constructability Lessons Learned Database for the State of Wisconsin Department of Transportation Highway Construction
Krishnamurthy, B. [Sunnyvale, CA]	MS (Thesis)	Fall 96	Toward an Automated Path-Planning and Real-Time Guidance System for Asphalt Pavement Compaction Operation
Nelson, G. [Project Engineer, Ryan Companies US, Inc., Scottsdale, AZ]	MS (Non-Thesis)	Fall 96	Development of an Interactive Relational Database for Bridge
Park, Junkwon [Unknown]	MS (Non-Thesis)	Sum 97	Neural Network Approach to Predicting Contractor Failure

Students Graduated			
Student	Degree	Year	Topic
Tserng, Hui-Ping [Assoc. Prof., National Taiwan University, Taipei, Taiwan]	PhD	Spr 97	Toward a Framework for an Automated Landfill System (ALS)
Koo, K. [Assist. Prof., University of Seoul, Korea]	MS (Non-Thesis)	Spr 97	Foreign Exchange Management in International Build-Operate-Transfer Project
Koch, J. [Project Engineer, Gallegos, Vail, CO]	MS (Non-Thesis)	Fall 97	Construction Issues with Structural Steel
Noble, D. [Project Engineer, Boldt Development Services, Milwaukee, WI]	MS (Thesis)	Fall 97	Guidelines for the Development of Innovative Contracting Practices in the Highway Construction Industry
Sasongko, Sentot [Unknown]	MS (Non-Thesis)	Fall 97	Improving Payment Process: A Case Study of Use of Continuous Improvement Analysis for Residential Development Company
Shr, Jin-Fang [Assist. Prof., University of Taiwan, Taiwan]	MS (Non-Thesis)	Fall 97	A Framework for Electronic Bidding in the Construction Industry
Schmitt, R. (50% Russell , 50% Hanna) [Assist. Prof., University of Wisconsin-Platteville, Platteville, WI]	PhD	Sum 98	Development of Statistically-Based Methods to Determine QC/QA Testing Levels for Hot-Mix Asphalt Construction
Jung, G. [Project Engineer, Westra Construction, Waupun, WI]	MS (Thesis)	Sum 98	Rational Method for Determining Minimum Inspection-Levels for Hot-Mix Asphalt Overlay Construction
Deccio, S. [WisDOT]	MS (Non-Thesis)	Sum 98	Development of a Standard Specifications Reference File for Inclusion With Lesson Learned Database for the WisDOT Constructability Program
Dupuis, J. [Project Engineer, Structural Research, Inc., Madison, WI]	MS (Non-Thesis)	Fall 98	An Investigation into Market Trends of Commercial Roofing Membrane Systems
Lee, H. [Project Engineer, Daewoo Corp., Seoul, South Korea]	PhD	Fall 98	Framework for Real-Time Management of Hot-Mix Asphalt Construction Operations
Meier, J. [Exxon, Floren Park, NJ]	MS (Thesis)	Spr 99	Design and Construct for Maintainability
Gerdman, D. [Department of Natural Resources, MSA Professional Services, Inc. Baraboo, WI]	MS (Non-Thesis)	Sum 99	Design and Construction of Wastewater Treatment Plants
Thompson, B. [Project Engineer, MSA Professional Services, Baraboo, WI]	MS (Thesis)	Fall 99	Guidelines for the Implementation of Warranty and Best Value Contracting in the Highway Construction Industry
Moua, B. [Pritchard Inc., Kansas City, MO]	MS (Thesis)	Fall 99	State of Practice in Maintainability: Seven Case Studies
Park, Hyung-Keun [General Manager, Daewoo Corp., Seoul, South Korea]	MS (Thesis)	Spr 99	Framework for a Methodology to Forecast Construction Cost at Completion for General Contractor in Jobsite
Lee, Duk Gyoo	MS	Fall 99	A Framework for Performance-Based Pay

Students Graduated			
Student	Degree	Year	Topic
[Project Manager, URS Corp., O'Brien Kreitzberg]	(Non-Thesis)		Adjustment Plan for Hot-Mix Asphaltic Concrete (HMAC) Pavement
Shr, Jin-Fang [Assist. Prof., University of Taiwan, Taiwan]	PhD	Fall 99	Model Development for Cost-Plus-Time Bidding Applied to Florida DOT Highway Construction
Kim, Eugene [d'Escoto, Inc, Chicago, IL]	MS (Non-Thesis)	Sum 00	Sustainable Design
Kim, Sung-Keun [Korea Institute of Construction Technology, South Korea]	PhD	Spr 01	Automated Construction Systems
Mariner, Maria [Unknown]	MS (Non-Thesis)	Fall 01	Productivity Analysis
Park, Hyung-Keun [General Manager, Daewoo Corp., Seoul, South Korea]	PhD	Fall 01	Prototype System for Cost Control
Koo, Kyo-Jin [Assist. Prof., University of Seoul, South Korea]	PhD	Fall 01	Foreign Exchange Risk Management in International BOT Project
Brandt, Carolyn [EarthTech, Inc., Madison, WI]	MS (Thesis)	Spr 01	Construction Engineering and Management Research
Blenker, Justin [Unknown]	MS (Non-Thesis)	Spr 02	Productivity of Masonry Construction
Jang, HyounSeung [CERIK, Korea]	PhD	Fall 02	Construction Material Logistics Tasks: Current Level of Satisfaction and Multiple Floor Layout Problems
Schumacher, Kristopher [J.P. Cullen Construction Co., Milwaukee, WI]	MS	Fall 02	Integrated Project Development Process
Mahle, Maureen [unknown]	MS	Fall 02	E-Commerce Applied to Construction
DeCicco, S. [WisDOT, Madison, WI]	PhD	Fall 03	Development of a Standard Specifications Reference File for Inclusion with Lesson Learned Database for the WisDOT Constructability Program
Choi, Jongsoo [Asst. Prof. Donguk University, Seoul, South Korea]	PhD	Spr 03	Strategic Motives Underlying M&A Activities in Construction Industry
Huang, Chun-Nen [unknown]	PhD	Spr 03	Productivity Chain Management
Yi, June Seong [Asst. Prof. Ewha University, Seoul, South Korea]	PhD	Spr 03	Development of Methodology for Applying Activity Based Costing System to Construction Project
Chin, Chang-Sun [unknown]	PhD	Fall 08	An Investigation to Improve Construction Information Flows
Cho, Daegu [unknown]	PhD	Fall 09	Construction Information Database Framework (CIF) for Cost, Schedule, and Performance Integration

Students Graduated			
Student	Degree	Year	Topic
Lee, Sang Hwan [unknown]	MS (Non- Thesis)	Fall 09	Analysis of the Critical Factors for Improving RFID Adoption in Construction
Lee, Jin Cheol [Unknow, South Korea]	PhD	Fall 10	Evaluating the sustainability of construction with recycled materials
Rogers, Joshua [CTLThompson, Ft. Collins, Co]	MS	Sum 11	Unavailable
Cullen, George [JP Cullen, Janesville, WI]	MS	Sum 12	Unavailable
Yeutter, Michael [The Boldt Company, Milwaukee, WI]	MS	Sum 12	The Use of Building Information Modeling in the Electrical Contracting Industry
Beyer, Adam [TRC Companies, Inc., Madison, WI]	MS	Spr 13	Unavailable
Dupuis, Mathew [Structural Research Inc., Middleton, WI]	PhD	Spr 14	Sensitivity Analysis of Error in a Roof Membrane Temperature Model Versus Input Data

PUBLICATIONS

Refereed Papers

1. Russell, J. S. and Skibniewski, M. J.: "Decision Criteria in Contractor Prequalification," *ASCE Journal of Management in Engineering*, Vol. 4, No. 2, April 1988, pp. 148-164.
2. Skibniewski, M. J. and Russell, J. S.: "Robotics Applications to Construction," *AACE Journal of Cost Engineering*, Vol. 31, No. 6, June 1989, pp. 10-18.
3. Russell, J. S.: "Model for Owner Prequalification of Contractors," *ASCE Journal of Management in Engineering*, Vol. 6, No. 1, January 1990, pp. 59-75.
4. Russell, J. S. and Skibniewski, M. J.: "QUALIFIER-1: Contractor Prequalification Model," *ASCE Journal of Computing in Civil Engineering*, Vol. 4, No. 1, January 1990, pp. 77-90.
5. Russell, J.S.: "Model for Owner Prequalification of Contractors," *ASCE Journal of Management in Engineering*, Vol. 6, No. 1, January 1990, pp. 59-75.
6. Russell, J. S., Skibniewski, M. J., and Cozier, D. R.: "QUALIFIER-2: Knowledge-Based System for Contractor Prequalification," *ASCE Journal of Construction Engineering and Management*, Vol. 116, No. 1, March, 1990, pp. 155-169.
7. Russell, J. S. and McCullouch, B. G.: "Civil Engineering Education: Case Study Approach," *ASCE Journal of Professional Issues in Engineering*, Vol. 116, No. 2, April 1990, pp. 164-174.
8. Russell, J. S.: "Surety Industry: Overview," *ASCE Journal of Management in Engineering*, Vol. 6, No. 3, July 1990, pp. 323-341.
9. Russell, J. S., Skibniewski, M. J., and Vanegas, J. A.: "A Framework for a Construction Robot Fleet Management System," *ASCE Journal of Construction Engineering and Management*, Vol. 116, No. 3, September 1990, pp. 448-462.

10. Russell, J. S. and Skibniewski, M. J.: "An Ergonomic Analysis Framework for Construction Tasks," *Journal of Construction Management and Economics*, Vol. 8, No. 3, September 1990, pp. 329-338.
11. Russell, J. S.: "Surety Bonding and Owner-Contractor Prequalification: Comparison," *ASCE Journal of Professional Issues in Engineering*, Vol. 116, No. 3, October 1990, pp. 360-374.
12. Russell, J. S., Benson, C. H., and Fox P. J.: "A Stochastic Decision Model for Contractor Prequalification," *Journal of Microcomputers in Civil Engineering*, Vol. 5, No. 4, December 1990, pp. 285-297.
13. Russell, J. S.: "Decision Analysis Framework for Evaluating Highway Contractors," *Transportation Research Record*, No. 1282, Materials and Construction, Transportation Construction 1990, Transportation Research Board National Research Council, pp. 66-75.
14. Russell, J. S.: "Insurance Industry: Overview," *ASCE Journal of Management in Engineering*, Vol. 7, No. 1, January 1991, pp. 98-118.
15. Russell, J. S.: "The Challenge: Recruiting Students to Civil Engineering," *ASCE Journal of Professional Issues in Engineering*, Vol. 117, No. 1, January 1991, pp. 21-26.
16. Russell, J. S.: "Construction Contract Bonds," *ASCE Journal of Management in Engineering*, Vol. 7, No. 3, July 1991, pp. 299-313.
17. Russell, J. S.: "Contractor Failure: Analysis," *ASCE Journal of Performance of Constructed Facilities*, Vol. 5, No. 3, August 1991, pp. 163-180.
18. Skibniewski, M. J. and Russell, J. S.: "Construction Robot Fleet Management System Prototype," *ASCE Journal of Computers in Civil Engineering*, Vol. 5, No. 4, October, 1991, pp. 1-20.
19. Russell, J. S.: "Cooperative Education: One Perspective," *ASCE Journal of Professional Issues in Engineering*, Vol. 117, No. 4, October 1991, pp. 1-17.
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2. Russell, J.S., Cramer, K., and Brower, A. (February 2015) [The Wisconsin Idea: Under Siege but Stronger Than Ever](#). *The EvoLLLution: Illuminating the LifeLong Learning Movement*.
3. Mangelsdorf, S.C., Russell, J.S., Jorn, L.A., and Morrill, J (March 2015) [MOOCs for Wisconsin and the World](#). *EDUCAUSE Review*.
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RESEARCH COMPLETED AND IN PROGRESS

Summary of research grants and contracts

1.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Research in Automation of the Contractor- Prequalification Process July 1989 - July 1990 UW Graduate School \$15,000 Research Committee (UW Internal) None 100%
2.	Project name: Start/end dates: Source of funds:	Enhancing the Communication Process between Disadvantaged Business Enterprise Firms and Prime Contractors September 1989 - June 1990 Wisconsin Department of Transportation (DOT)

	Amount: Review process: Co-investigator: Percent involvement:	\$18,000 Wis DOT-Internal None 100%
3.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift May 1990 - August 1990 Wisconsin Road Builders Association \$6,000 Wisconsin Road Builders Association- Internal None 100%
4.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Implementation of the Robotic Logistics Module October 1989 - September 1991 Obayashi Corporation (Subcontracted from Purdue University) \$44,000 Obayashi Corporation, Purdue University- Internal None 100%
5.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Research in an Automated Decision Support for Infrastructure Management July 1990 - July 1991 U.W. Graduate School \$21,611 (P.I. salary portion of \$9,222 turned back to Grad- School) Research Committee (U.W. Internal) None 100%
6.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Evaluation and Quantification of Risks Confronted by Surety Companies Underwriting Reclamation Bonds November 1989 - September 1992 U.S. Department of Interior, Office of Surface Mining Reclamation and Enforcement (Subcontracted from Purdue University) \$119,000 National Peer and Expert Panel Review None 100%
7.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Presidential Young Investigator Award July 1990 - July 1995 National Science Foundation \$312,500 National Peer and Expert Panel Review None 100%
8.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift June - August, 1990 Payne and Dolan, Inc. \$30,000 Internal Prof. Steven M. Cramer 50% S. M. Cramer; 50% J. S. Russell
9.	Project name: Start/end dates: Source of funds: Amount: Review process:	An Analysis and Evaluation of a Plan Quality Evaluation Form September - June 1991 Wisconsin Department of Transportation \$25,000 Internal

	Co - investigator:	None
10.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	An Analysis of Constructability Programs November, 1991 - December, 1992 Construction Industry Institute \$114,500 Internal None 100%
11.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift June - August 1990 Wisconsin Concrete Pavement Association \$10,000 Internal Prof. Steven M. Cramer 50% S. M. Cramer; 50% J. S. Russell
12.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift May 1991 - August 1991 Wisconsin Road Builders Association \$7,000 Wisconsin Road Builders Association-Internal None 100%
13.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift August 1991 - December 1991 Wisconsin Road Builders Association \$7,500 Wisconsin Road Builders Association-Internal None 100%
14.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Data Flow Identification to Support Project Automation/Integration and Productivity Improvement July 1992 - July 1993 UW Graduate School \$13,500 Research Committee (U.W. Internal) None 100%
15.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Constructability of Highway Plans: Phase I May 1992 - November 1992 Wisconsin Department of Transportation \$10,500 Wisconsin Department of Transportation Internal None 100%
16.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift May 1992 - August 1992 Wisconsin Road Builders Association \$8,000 Wisconsin Road Builders Association-Internal None 100%
17.	Project name: Start/end dates:	Unrestricted Research Gift June - August 1992

	Source of funds: Amount: Review process: Co-investigator: Percent involvement:	James Cape & Sons \$10,000 Internal Prof. Steven M. Cramer 50% S. M. Cramer; 50% J. S. Russell
18.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Analytical Study of Surface Friction of Wisconsin State Trunk Highway System Pavements November 1992 - November 1993 Wisconsin Department of Transportation \$59,000 Wisconsin Department of Transportation-Internal Prof. Peter J. Bosscher 75% J.S. Russell; 25% P.J. Bosscher
19.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Constructability of Highway Plans April 1993 - June 1994 Wisconsin Department of Transportation \$88,000 Wisconsin Department of Transportation –Internal None 100%
20.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Investigation of the Performance of Parting Strips in the Formation of Longitudinal Joints in PCC Pavements May 1993 - May 1994 Wisconsin Department of Transportation \$132,000. Wisconsin Department of Transportation-Internal Prof. Awad S. Hanna 50% A. S. Hanna; 50% J. S. Russell;
21.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Investigation into Vibratory Pile Driving Techniques July 1993 - July 1994 UW Graduate School \$7,170 Research Committee (U.W. Internal) None 100%
22.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Research Experiences for Undergraduates: Construction Engineering and Management July 1992 - June 1993 National Science Foundation \$5,000 Internal Review None 100%
23.	Project name: Start/end dates: Amount: Review process: Co-investigator: Percent involvement:	Research Experiences for Undergraduates: Construction Engineering and Management July 1993 - June 1994 \$10,000 Internal Review None 100%
24.	Project name: Start/end dates: Source of funds: Amount: Review process:	Research Gift Hot Mix Asphalt December 1993 - 2003 Payne and Dolan, Inc. \$530,000 Internal

	Co-investigator: Percent involvement:	Prof. H.U. Bahia 50% H.U. Bahia; 50% J.S. Russell
25.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Predicting Bearing Capacity of Piles Installed with Vibratory Drivers AM January 1993 - March 1997 Construction Productivity Advancement Program- U. S. Army Corp of Engineers \$500,000 (\$155,000 directly received by UW) Expert Panel Prof. Peter J. Bosscher 90% P. J. Bosscher; 10% J.S. Russell
26.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Predictive Tools for Capital Projects December 1993 - April 1995 Construction Industry Institute \$130,620 (responsible for coordination for an additional contract of \$25,000 to Professor Edward J. Jaselskis, Iowa State University, thus a total of \$155,620). External Review Panel None 100%
27.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Construction Automation July 1994 - July 1995 UW Graduate School \$7,170 Research Committee (U.W. Internal) None 100%
28.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Asphaltic Pavement Density Comparisons Using Coring and Nuclear Techniques June 1994 - January 1995 Wisconsin Department of Transportation \$44,100 WisDOT and Contractor Industry Group Prof. A. S. Hanna 50% A. S. Hanna; 50% J. S. Russell
29.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Field Validation of SHRP Binder Specification in Wisconsin November 1994 - Jan 1999 Wisconsin Department of Transportation \$87,000 WisDOT and Contractor Industry Group Profs. H. U. Bahia and P. J. Bosscher 50% H. U. Bahia; 40% P.J. Bosscher; and 10 % J.S. Russell
30.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Construction Automation July 1995 - July 1996 UW Graduate School \$7,170 Research Committee (U.W. Internal) None 100%
31.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Asphaltic Pavement Density Comparisons Using Coring and Nuclear Techniques -- Phase II June 1995 - January 1996 Wisconsin Department of Transportation \$66,000 WisDOT and Contractor Industry Group Prof. A. S. Hanna 50% A. S. Hanna; 50% J.S. Russell

32.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift May 1995 - August 1995 Wisconsin Road Builders Association \$10,000 Wisconsin Road Builders Association-Internal None 100%
33.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift May 1995 - August 1995 John W. Rogers Foundation \$37,500 None None 100%
34.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Quantification of Impact of Project Change Orders August 1996 - August 1997 National Electric Contractors Association and Mechanical Contractors Association of America \$55,000 Peer-reviewed Prof. A.S. Hanna 75% A.S. Hanna; 25% J.S. Russell
35.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Stacking of Trades on Labor Efficiency. January 1997 - January 1997 National Electric Contractors Association \$51,424 Peer-reviewed Prof. A.S. Hanna 75% A.S. Hanna; 25% J.S. Russell
36.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Development of Constructability Lesson-Learned File June 1996 - June 1997 Wisconsin Department of Transportation \$60,000 Internal Prof. A.S. Hanna 50% J.S. Russell; 50% A.S. Hanna
37.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Unrestricted Research Gift September 1995 - September 1997 Kohler \$60,000 None None 100%
38.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Testing and Inspection Levels for Hot-Mix Asphaltic Concrete (NCHRP 10-39A) February 1996 - February 1998 National Cooperative Highway Research Program Transportation Research Board, National Research Council \$260,000 Peer-reviewed Prof. A.S. Hanna and E.V. Nordheim 50% J.S. Russell; 25% A.S. Hanna; and 25% E.V. Nordheim
39.	Project name: Start/end dates:	Graduate Research Traineeship September 1996 - September 2002

	Source of funds: Amount: Review process: Co-investigator: Percent involvement:	National Science Foundation \$562,500 Peer-reviewed Prof. R. Veeramani and T.M. Adams 33% J.S. Russell; 33% T.M. Adams; and 33% R. Veeramani
40.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Improved Contracting Methods for Highway Construction Projects Amplified Work Plan (NCHRP 10-49) January 1997 - January 1999 National Cooperative Highway Research Program Transportation Research Board, National Research Council Total project \$312,500; Subcontract for Texas A&M Univ. \$115,000 Peer-reviewed Prof. A.S. Hanna and D. Walker 50% J.S. Russell; 50% A.S. Hanna
41.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Design and Construction for Maintainability Task Force July 1997 - August 1999 Construction Industry Institute \$159,000 External Review Panel None 100%
42.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	The Use of Gyrotory Compaction Results to Predict Optimum Field Compaction September 10, 1997 - September 10, 1998 FHWA \$100,000 Internal Prof. H.U. Bahia and P.J. Bosscher 70% H.U. Bahia; 25% P.J. Bosscher; and 5% J.S. Russell
43.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Design for Maintainability Team January 1997 - November 1999 Construction Industry Institute \$125,000 CII internal review of contracted Work None 100%
44.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Quantifying Impact of Change Orders: A Micro Study - Phase II January 1998 - June 1999 The Electrical Contracting Foundation, Inc. \$70,000 Peer-reviewed Prof. A.S. Hanna 75% A.S. Hanna; 25% J.S. Russell
45.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Quantifying Impact of Change Orders: A Micro Study Phase II January 1, 1998 - January 2, 1999 Mechanical Contractors Association of America \$70,000 Internal Prof. A.S. Hanna 75% A.S. Hanna; 25% J.S. Russell
46.	Project name: Start/end dates: Source of funds: Amount:	Cumulative Change Order Impact January 1998 - January 2001 Construction Industry Institute 140,000

	Review process: Co-investigator: Percent involvement:	CII internal review of contracted Work Awad Hanna 25%
47.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Development of Constructability Lesson-Learned File September 1998 - August 1999 Wisconsin Department of Transportation \$45,000 Internal Prof. A.S. Hanna 50% J.S. Russell; 50% A.S. Hanna
48.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	University Transportation Center June 1999 - September 2005 U.S. Department of Transportation \$890,000 with \$890,000 local/state match per year Expert Panel Adams, Wittwer 10% Russell, J.S.
49.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Track Delamination, Debonding and Deterioration of Bridge Decks by Monitoring Moisture Content and Density of Portland Cement Concrete August 1999 - July 2000 Wisconsin Department of Transportation \$10,000 Internal Prof. A.S. Hanna 50% Russell, J.S., 50% Hanna, A.S.
50.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Project Delivery Systems in the Downstream and Chemical Sector August 1999 - December 2020 Construction Industry Institute \$100,000 Expert panel Awad Hanna, Zhenhua Zhu 10%
51.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Specifications for Fiber Reinforced Plastics February 2000 - May 2002 FHWA \$333,333 Internal Bank 50% Bank, L., 40% Georgia Tech, 10% Russell, J.S
52.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	NCHRP 10-58 Construction Engineering and Management Research Program March 2000 - October 31, 2001 National Academy of Science (NCHRP) \$200,000 External Review Process Prof. S. Anderson, Texas A&M University 50% Russell, J.S., 50% Anderson, S.
53.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Demonstration Bridge Project October 2000 - January 2003 IBRC \$500,000 Internal Bank 50% Bank, L., 40% Oliva, M., 10% Russell, J.S.

54.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	E-commerce Applications to the Construction Industry November 2000 - January 2003 Construction Industry Institute \$112,000 Research Committee Veeramani 50% Veeramani; 50% Russell, J.S.
55.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Innovative Bridge Research and Construction Program 1–Highway 151/Rte. 26 December 2000 - October 2003 FHWA \$287,967 Internal Bank and Oliva 10% Russell, J.S.
56.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Cost Effectiveness of Innovative Crew Scheduling January 2001 - September 2003 Construction Industry Institute \$50,000 CII internal review of contracted Work Awad Hanna 10%
57.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	eCommerce Applications in Construction January 2001 - January 2003 Construction Industry Institute \$100,000 CII internal review of contracted Work Raj Veeramani 50%
58.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Demonstration Bridge Project October 2001 - January 2004 IBRC \$500,000 Internal Bank 50% Bank, L; 40% Oliva, M; 10% Russell, J.S.
59.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Innovative Bridge Research and Construction Program 2 – Highway 151/De Nevue Creek August 2002 - June 2006 FHWA \$350,846 Internal Bank 10% Russell, J.S.
60.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Lessons Learned Database 3.0 September 1, 2002 - August 31, 2003 Wisconsin Department of Transportation \$30,000 Internal Hanna 50% Russell, J.S.; 50% Hanna, A.
61.	Project name: Start/end dates: Source of funds:	Demonstration Bridge Project October 2003 - January 2005 IBRC

	Amount: Review process: Co-investigator: Percent involvement:	\$350,846 Internal Oliva 50% Bank, L; 40% Oliva, M; 10% Russell, J.S.
62.	Project name: Start/end dates: Amount: Review process: Co-investigator: Percent involvement:	Permeability of Hot Mix Asphalt Pavements November 2002 - November 2005 \$225,000 Research Committee Bahia 85% Bahia; 15% Russell, J.S.
63.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Innovative Bridge Research and Construction Program 4 – USH 12 over Coffee Creek August 2004 - June 2008 FHWA \$376,000 Internal Bank 10% Russell, J.S.
64.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Conceptual Studies for Rapidly Deployable Battlespace Gap Structures – Phase II October 2004 - September 2005 US Army Corps of Engineers \$66,246 Internal Bank 10% Russell, J.S.
65.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Experimental Testing of the Suspension Net Concept Variation September 2005 - September 2006 US Army Corps of Engineers \$14,600 Internal Bank 10% Russell, J.S.
66.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Specification and Design of Fiber Reinforced Bridge Deck Forms for use on Wide Flange T-Girders November 2005 - November 2006 Wisconsin Highway Research Program \$94,735 Internal Bank and Oliva 10% Russell, J.S.
67.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Rapid Bridge Construction Technology – Precast Elements for Substructures October 2006 - October 2008 Wisconsin Highway Research Program \$124,411 Internal Oliva and Bank 10% Russell, J.S.
68.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Lessons Learned 3 November 2006 - December 2009 Wisconsin Dept. of Transportation \$272,000 Internal None 100%

69.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Field Studies May 2007 - January 2008 Wisconsin Dept. of Transportation \$16,000 Internal None 100%
70.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Field Studies May 2008 - August 2008 Wisconsin Dept. of Transportation \$14,000 Internal None 100%
71.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Field Studies June 2008 - September 2008 Wisconsin Dept. of Transportation \$10,520 Internal None 100%
72.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Field Studies June 2008 - May 2009 Wisconsin Dept. of Transportation \$27,000 Internal None 100%
73.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	COE 2010 Project to create a Certificate in Integrated Studies in Science, Engineering, and Society July 2008 - December 2009 College of Engineering \$21,000 Internal Sarah Pfatteicher and Daniel Kleinman 30%
74.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Field Studies June 2009 - May 2010 Wisconsin Dept. of Transportation \$37,100 Internal None 100%
75.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Development of On-Line Classes in Leadership and Sustainability July 2009 - December 2010 College of Engineering \$40,000 Internal Alicia Jackson and Pat Eagan 30%
76.	Project name: Start/end dates: Source of funds:	Quantitative Measurement of Project Manager Competencies November 2012 - November 2014 Construction Industry Institute

	Amount: Review process: Co-investigator: Percent involvement:	\$241,456 Highly competitive (national) Awad Hanna 25%
77.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Best Practices for Preventing Out-of-Sequence Construction Activities and Minimizing their Impacts November 2015 - November 2017 Construction Industry Institute \$252,915.55 Highly competitive (national) Awad Hanna 25%
78.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Construction Readiness Assessment for Productivity March 2017 - September 2019 Construction Industry Institute \$99,710 CII internal review of contracted work Awad Hanna, Dharmaraj Veeramani 15%
79.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Project Delivery Contract Strategy Update January 2020 - January 2021 Construction Industry Institute \$110,000 CII internal review of contracted work Awad Hanna, Zhenhua Zhu 5%
80.	Project name: Start/end dates: Source of funds: Amount: Review process: Co-investigator: Percent involvement:	Organizational Structures and Processes to Enable Cultivating Change September 2020 - November 2022 Construction Industry Institute \$200,000 Expert panel Hala Nassereddine and Joe Labianca from University of Kentucky 10%

PROFESSIONAL SERVICE

Professional Memberships

- American Society of Civil Engineers (ASCE), Distinguished Member
- American Society for Engineering Education (ASEE)
- Association of Asphalt Paving Technologists, Associate Member
- Professional Engineer, State of Wisconsin No. 30547, 1994
- National Academy of Construction, Member (2011-Present)
- National Society of Professional Engineers (NSPE), Fellow

University of Wisconsin–Madison Service

- Review committee for Byron Bird Award for Excellence in a Research Publication
- Campus Conflict of Interest Committee, 1997 - 2000
- Member, Giving from Within Committee, 2007 - present

- Campus Physical Sciences Tenure Committee, 2008 - 2010
- The Higher Learning Commission Reaccreditation Theme “Integrating The Processes of Discovery and Learning” 2008 - 2009
- Campus General Education Committee 2008 - 2011
- Co-chair, Educational Innovation, 2011 - present
- Search and Screen Committee: Dean of the School of Business (2011); Dean of the School of Human Ecology (2012); Dean of the Graduate School (2015)
- Member, Baldwin Wisconsin Idea Endowment Committee, 2012 - 2015
- Chair, Summer Term Committee, 2015

College of Engineering (CoE) Service

- Master of Ceremonies, Engineers Day, October 9, 1998
- Chair, Industrial Engineering 10-Year Review
- Engineering Beyond Boundaries Committee, 2004 - 2011
- Differential Tuition Committee, 2009 - 2011

Department of Civil and Environmental Engineering (CEE) Service

Construction Engineering Management (CEM)

- Construction Engineering and Management Committee: member, 1989 - present; co-chair 1990 - 1994; chair, 1995 - present
- Assisted in development and implementation of Construction Engineering and Management Option within Civil and Environmental Engineering including the development of marketing material (brochure and poster), developing curriculum, establishing summer jobs program, liaison with industry and CEM industry advisory board
- Construction Engineering and Management Graduate Admissions co-chair, 1989 - present
- Advised Undergraduate Students Construction Engineering and Management Program; 1989 - present, approximately 25 students per year

Development

- Development for CEE Department - formulated plans to raise support for program endowments
- Assisted in organizing and development related to the Charles G. Salmon, Paul R. Wolf, C.K. Wang, Arthur F. Hawnn, and Peterson-Rader-Hawnn Professorships
- Assisted in establishing 3 fellowships in Construction Engineering and Management Program (John Rogers, Mortenson, and John Nelson)
- Assisted in soliciting Roy F. Weston Center gift

Research

- Facilitated the signing of a Cooperative Research Agreement between UW System, Marquette University, the Wisconsin Department of Transportation, and Wisconsin Road Builders Association
- Assisted in creating Wisconsin Highway Research Program (1997 - present) and the US DOT Midwest Regional Transportation Center

Constructed Facilities

- Constructed Facilities Group, chair 1996 - 1997

Operations Committee

- Member representing structures, materials, and construction, 1998 - 2000

Search and Screen Committees

- Assisted in search and screen committees for eight searches in CEE Department

Student Organizations

- Co-advised ASCE Student Chapter in organizing 1992 Midwest Steel Contest held in Madison, WI
- Accompanied ASCE Student Chapter to Regional Concrete Canoe and Steel Bridge Contest held in 1993, 1995, 1997, and 1998
- Faculty Co-Advisor, Hosted National Concrete Canoe Competition, June 12-14, 1996, Madison, WI, included 26 schools from U.S. and over 500 student participants
- Accompanied ASCE Student Chapter to National Concrete Canoe Races held in Cleveland, OH (1997) and Rapid City, SD (1998)
- Co-Advisor Chi Epsilon, 1997 - present
- Co-Advisor, Hosting of Chi Epsilon National Conclave, March 2000, Madison, WI
- Construction Club - assisted students in organizing Club banquet, 1998 - 2005
- Faculty Co-Advisor, Hosted ASCE National Student Conference, June 2002, Madison, WI, included over 50 schools from U.S. and over 1,200 participants

Engineering Centers Building

- Worked with architect/engineers to design educational use of the building as a learning tool (three semester, one-credit course)

Other Professional Service, Extension, or Outreach

American Society of Civil Engineers (ASCE)

- Construction Division - Microcomputers in Construction: secretary, 1989 – 1992; member of Construction Research Council, 1988 - present
- Engineering Management Division, Engineering Management, Publication Committee: corresponding member (responsible for selection of Outstanding Paper 1990 and 1991); full member, 1991 - present (additional responsibilities: ASCE News Correspondent 1991 - 1993; vice-chairman, May 1992 - August 1993; chairman, August 1993 - 1994, editor-in-chief of the *Journal of Management in Engineering* 1995 - 2000)
- Member of planning committee for ASCE Management Specialty Conference February 25-26, 1993, Denver, CO. Responsible for organizing and coordinating publication of conference proceedings
- Member, Education Implementation Task Committee, 1996 - 1998
- Chairman, Construction Congress V, ASCE, Construction Division, 43 Sessions, 140 papers, 55 co-sponsors, October 5-8, 1997, Minneapolis, MN
- District 8 Representative, National Board of Direction, 1997 - 2001
- Committee on Planning and Implementation, September 1998 - 1999
- Committee on Professional Practice, September 1998 - 1999
- Committee on National Infrastructure Policy, September 1998 - 1999
- TRB Committee on Flexible Pavement Construction and Rehabilitation, Group 2, Section F, A2F02,

1999 - 2001

- Publications Committee, member and chair, 2000 and 2001
- Founding editor-in-chief of new publication, *Leadership and Management in Engineering*, 2000 - 2003
- Committee on Diversity & Women in Civil Engineering 2000 - 2002
- State Government Relations Committee, 2000 - 2002
- Member, Construction Institute Board, 2000 - 2002
- Advisory Council Member on US Infrastructure Report Card, 2000
- Chair, Task Committee on Academic Prerequisites for Professional Practice, 2001 - 2003
- Co-Organized “Mega Projects West Coast” Seminar August 2003, Berkeley CA. Over 200 participants
- Chair, Committee on Academic Prerequisites for Professional Practice, 2003 - 2014
- Peurifoy Research Award Selection Committee, 2009 - present
- Walter Huber Civil Engineering Research Prize Selection Committee, 2010 - present
- Vice Chair, Raise The Bar Committee, 2014 - 2016
- Chair, Task Committee on Educational Requirements for Licensure, October 2014 - present
- Reviewer, 2016 American Society of Engineering Education Annual Conference & Exposition, Civil Engineering Division

Other

- Academic Member, Constructability Implementation Task Force, Construction Industry Institute, Austin, TX, April 1990 - December 1992
- Member, Transportation Research Board Committee on Disadvantaged Business Enterprises, 1990 - 1998
- Member, American Road and Transportation Builders Association Education Committee, 1990 - 2005
- College for Kids Program. In 1992, gave two-hour lecture to two groups of 20 students on “What is Civil Engineering?” Organized four-day sessions for College for Kids Program, 1996-1998
- Academic Member, Predictive Tools Task Force, Construction Industry Institute, Austin, TX, May 1993 - December 1995
- Academic Member, Design and Construction for Maintainability Task Force, Construction Industry Institute, Austin, TX, February 1997
- Academic Member, Predictive Tools Educational Module, Construction Industry Institute, Austin, TX, June 1997 - 1999
- Member, Wisconsin Society of Professional Engineers, Board of Engineering Professional Responsibility, Fall 1997 - 2020
- Member, W065 Organization and Management of Construction Commission, CIB, International Council for Building Research Studies and Documentation, September 1998 - 2008
- Member, Transportation Development Association Committee, 2000 - 2008
- Member, University of Mount Union, College of Engineering Advisory Board, 2000 - present, & chair, 2019 - 2022
- Member, Charles Pankow Foundation, 2007 - 2013
- Member, Civil Engineering Advisory Board, United States Military Academy at West Point, 2012 - 2016
- National Academy of Construction: member, 2011 - present; Membership Committee vice-chair,

2019 - 2020; Construction Executive Committee, 2020 - 2022

- Member, UW Credit Union Board of Directors, 2012 - present, & Executive Committee vice-chair, 2019 - present
- Review Panelist, National Science Foundation, 2013 - present (2x/year)
- Member, University of Wisconsin Extension Reimagined Committee, 2015
- Member, Wisconsin Center for Education Products & Services Board of Directors, November 2013 - present
- Survey of current Construction Engineering and Management programs, Global Leadership Forum of Construction Engineering and Management
- UW–Madison Partners in Giving Combined Campaign co-chair, 2018 - present
- Member, Operation Fresh Start Board of Directors, January 2021 - present

Continuing Education

- Continuing Education, Construction Management Program, Texas A&M University, College Station, TX, September and May (May 1989 to 1995). Presentation of six-hour session on Contractor Prequalification. Average rating over 16 categories 4.25/5.0 (5.0 = excellent).
- Continuing Education, Effective Methods For Improving Construction Engineering, University of Wisconsin–Madison Professional Development, Madison, WI, May 1991. Presentation of a six-hour session on topics ranging from contractor prequalification, surety bonding, and construction automation and technology. Average rating for categories of content, visuals, delivery, and handouts 4.34/5.0 (5.0 = excellent).
- Continuing Education, Construction Management Program, University of Texas-Austin, Austin, TX, February 13, 1992. Co-taught eight-hour session on Constructability Analysis. Average rating 3.5/4.0 (4.0 = excellent).
- Continuing Education, 1st Construction Engineering and Management Conference, December 1, 2, and 3, 1993, University of Wisconsin–Madison, Madison, WI. Taught two hours related to Contractor Failure and Constructability Analysis. Average rating 3.5/4.0 (4.0 = excellent).
- Moderator, National Video Conference on “Improving Project Success with ISO 9000,” December 3, 1997, Madison, WI, four hours. Average rating 4.1/5.0 (5.0 = excellent).
- Continuing Education, Construction Engineering and Management Conference, “New Contracting Practices - Warranties and Performance Related Specifications,” December 8-10, 1997, Madison, WI. (Average ranking 4.3/5.0 (5.0 = excellent).
- Continuing Education, Construction Engineering and Management Conference, “Contractor Prequalification: A Better Way to Build,” February 25 and 26, 1998, Madison, WI. Taught 12 hours on Contractor Prequalification. Average rating 4.3/5.0.
- Continuing Education, Contractor/Subcontractor Prequalification, July 16-17, 1998, Arizona State University, Tempe, AZ. Taught 12 hours on Contractor Prequalification. Average rating 3.8/4.0 (4.0 = excellent.)
- Continuing Education, Pavement Rehabilitation Techniques, November 1997 and 1998, Madison, WI. Taught 1.5 hours on Trends in Contracting Methods.

Consulting

- Consulting services provided on research projects in the areas of “Constructability for Transportation Facilities” and “Warranties.” Texas Transportation Institute, Texas A&M University, College Station, TX

- Consulting services provided to Federal Aviation Administration (FAA), Seattle, WA and Anchorage, AK
- Consulting services to Miller Park Stadium, Milwaukee, WI

Educational Consulting

- American University of Beirut (Lebanon)
- Illinois Institute of Technology
- King Saud University (Saudi Arabia)
- Marquette University
- Sultan Qaboos University (Oman)
- University of Colorado, Boulder
- University of Mount Union
- University of Texas at Austin
- Virginia Polytechnic Institute and State University (Virginia Tech)

Presentations in Construction Profession

- “Engineering Ethics Training” for Wisconsin Transportation Builders Association, January 2014
- “Engineering Practice and Ethics” for American Council of Engineering Companies, March 2014
- “Ethics,” Associated General Contractors of Wisconsin, July 2014
- “Lifelong Learning at UW–Madison,” at private dinner for UW e-Business Consortium, October 2014
- “Ethics,” for Associated General Contractors of Wisconsin, November 2014
- “Ethics,” for the Institute of Transportation Engineers, April 2015
- “Ethics,” Associated General Contractors of WI, November 2019
- “Ethics,” Wisconsin Department of Transportation 34th Annual Disadvantaged Business Enterprise (DBE) Workshop & Secretary's Golden Shovel Awards, February 2020
- “Technical Project Management in Living and Geometric Order: A Practical Perspective,” ASCE SW Branch, March 2020
- “Project Leadership,” ASCE, March 2020
- “Ethics Part 2,” Wisconsin Department of Transportation 35th Annual DBE Workshop & Secretary's Golden Shovel Awards, February 2021
- “Towards Ethical Practice” Wisconsin Department of Transportation 36th Annual DBE Workshop & Networking Summit, March 2022
- “Critical Resourcing,” Missouri Consortium for Construction Innovation, Missouri S&T, December 2022
- “Towards Ethical Practice,” Wisconsin Department of Transportation Annual Disadvantaged Business Enterprise (DBE) Workshop & Secretary's Golden Shovel Awards, March 2023

Reviewer or Referee – Journals

- National Science Foundation
- National Academy of Science (National Cooperative Highway Research Program)
- ASCE Journal of Construction Engineering and Management
- ASCE Journal of Management in Engineering

- ASCE Journal of Transportation Engineering
- ASCE Journal of Computers in Civil Engineering
- ASCE Journal of Performance of Constructed Facilities
- Journal of Construction Management and Economics
- Construction Business Review Editorial Board

Reviewer – Books

- John Wiley & Sons
- ASCE Press
- CRC Press
- Prentice Hall